

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	8	US-4294686-\$.DID. OR US-5069775-\$.DID. OR US-5133941-\$.DID. OR US-5269909-\$.DID. OR US-5817229-\$.DID. OR US-6004453-\$.DID. OR US-6016868-\$.DID. OR US-6059957-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 10:36

## EAST Search History

S2	325	("1404709"   "1884495"   "1949109"   "2134571"   "2419245"   "2467920"   "2506853"   "2584606"   "2614066"   "2620293"   "2734578"   "2797908"   "2819890"   "2843530"   "2857002"   "2873245"   "2880167"   "2887160"   "2899330"   "2913388"   "2931767"   "2953513"   "2994724"   "3051235"   "3084919"   "3102588"   "3208514"   "3228467"   "3254721"   "3327782"   "3340316"   "3355376"   "3369992"   "3372754"   "3412010"   "3456721"   "3532618"   "3544291"   "3595316"   "3598182"   "3617471"   "3681200"   "3681231"   "3694344"   "3694374"   "3700035"   "3707189"   "3730875"   "3775286"   "3847564"   "3847748"   "3902856"   "3908762"   "3948754"   "3982591"   "3982592"   "3986556"   "3990513"   "3994340"   "4008128"   "4024912"   "4037658"   "4050515"   "4053015"   "4077469"   "4078613"   "4099568"   "4127171"   "4134825"   "4141417"   "4148358"   "4159743"   "4160479"   "4172026"   "4183405"   "4186800"   "4199024"   "4209685"   "4214977"   "4233166"   "4241790"   "4252634"   "4265310"   "4284139"   "4294686"   "4299685"   "4299687"   "4309753"   "4324139"   "4334976"   "4347122"   "4354923"   "4370221"   "4391701"   "4410421"   "4411768"   "4419223"   "4432864"   "4434044"   "4435279"   "4444257"   "4444651"   "4448251"   "4464247"   "4464250"   "4476927"   "4478707"   "4483762"   "4487264"   "4493761"   "4501445"   "4514283"   "4525175"   "4569753"   "4582120"   "4597441"   "4605646"   "4687570"   "4691771"   "4716958"   "4743357"   "4822761"   "4853337"   "4865130"   "4883582") .PN. OR ("4894141"   "4897176"   "4923838"   "4925632"   "4963247"   "4969988"   "4994172"   "5024752"   "5045226"   "5054551"   "5055030"   "5069775"   "5104516"   "5105887"   "5110452"   "5120427"   "5120430"   "5145003"   "5163511"   "5190633"   "5222617"   "5228501"   "5258634"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/24 16:31
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## EAST Search History

S3	524	208/132.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/13 13:39
S4	2388	208/14,106,107,132.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/13 11:35
S5	8	US-4294686-\$.DID. OR US-5069775-\$.DID. OR US-5133941-\$.DID. OR US-5269909-\$.DID. OR US-5817229-\$.DID. OR US-6004453-\$.DID. OR US-6016868-\$.DID. OR US-6059957-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/27 15:35

## EAST Search History

S6	325	("1404709"   "1884495"   "1949109"   "2134571"   "2419245"   "2467920"   "2506853"   "2584606"   "2614066"   "2620293"   "2734578"   "2797908"   "2819890"   "2843530"   "2857002"   "2873245"   "2880167"   "2887160"   "2899330"   "2913388"   "2931767"   "2953513"   "2994724"   "3051235"   "3084919"   "3102588"   "3208514"   "3228467"   "3254721"   "3327782"   "3340316"   "3355376"   "3369992"   "3372754"   "3412010"   "3456721"   "3532618"   "3544291"   "3595316"   "3598182"   "3617471"   "3681200"   "3681231"   "3694344"   "3694374"   "3700035"   "3707189"   "3730875"   "3775286"   "3847564"   "3847748"   "3902856"   "3908762"   "3948754"   "3982591"   "3982592"   "3986556"   "3990513"   "3994340"   "4008128"   "4024912"   "4037658"   "4050515"   "4053015"   "4077469"   "4078613"   "4099568"   "4127171"   "4134825"   "4141417"   "4148358"   "4159743"   "4160479"   "4172026"   "4183405"   "4186800"   "4199024"   "4209685"   "4214977"   "4233166"   "4241790"   "4252634"   "4265310"   "4284139"   "4294686"   "4299685"   "4299687"   "4309753"   "4324139"   "4334976"   "4347122"   "4354923"   "4370221"   "4391701"   "4410421"   "4411768"   "4419223"   "4432864"   "4434044"   "4435279"   "4444257"   "4444651"   "4448251"   "4464247"   "4464250"   "4476927"   "4478707"   "4483762"   "4487264"   "4493761"   "4501445"   "4514283"   "4525175"   "4569753"   "4582120"   "4597441"   "4605646"   "4687570"   "4691771"   "4716958"   "4743357"   "4822761"   "4853337"   "4865130"   "4883582") .PN. OR ("4894141"   "4897176"   "4923838"   "4925632"   "4963247"   "4969988"   "4994172"   "5024752"   "5045226"   "5054551"   "5055030"   "5069775"   "5104516"   "5105887"   "5110452"   "5120427"   "5120430"   "5145003"   "5163511"   "5190633"   "5222617"   "5228501"   "5258634"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/27 15:20
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## EAST Search History

S7	1	(S5 or S6 or S4) and thermal\$4 adj crack\$4 with hydrogen with second\$1 and quench\$4 with second\$1 and stabiliz\$4 with minute\$1	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 17:20
S8	4	(S5 or S6 or S4) and thermal\$4 adj crack\$4 with hydrogen with second\$1 and quench\$4 with second\$1	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/27 15:53
S9	1	(S5 or S6 or S4) and thermal\$4 adj crack\$4 with hydrogen with second\$1 and stabiliz\$4 with minute\$1	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 10:59
S10	2	(S5 or S6 or S4) and thermal\$4 adj crack\$4 with hydrogen with second\$1 and quench\$4 with second\$1 and stabiliz\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/27 15:23
S11	19	(S5 or S6 or S4) and thermal\$4 adj crack\$4 with hydrogen with second\$1	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/27 17:33
S12	2	(S5 or S6 or S4) and quench\$4 with second\$1 and stabiliz\$4 with minute\$1	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/27 15:32
S13	12	(S5 or S6 or S4) and quench\$4 with second\$1 and stabiliz\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/27 15:28
S14	6	(S5 or S6 or S4) and stabiliz\$4 with minute\$1	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/27 15:38
S15	2	(S5) and stabiliz\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/27 15:38
S16	0	S5 and thermal\$4 adj crack\$4 with hydrogen with seconds	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/27 15:51
S17	19	(S5 or S6 or S4) and thermal\$4 adj crack\$4 with hydrogen with second\$1	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/27 15:53

## EAST Search History

S18	38	("2614066"   "3544291"   "3694344"   "3694374"   "3847564"   "4209685"   "4252634"   "4299687"   "4309753"   "4347122"   "4354923"   "4370221"   "4419223"   "4432864"   "4434044"   "4435279"   "4444651"   "4464250"   "4525175"   "4569753"   "4582120"   "4605646"   "4716958"   "4822761"   "4894141"   "4923838"   "4963247"   "5045226"   "5104516"   "5322617"   "5436215"   "5445659"   "5457256"   "5935419").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/27 16:40
S19	0	S18 and stabiliz\$4 with minutes	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/27 16:40
S20	8	S18 and stabiliz\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/27 16:41
S21	0	S5 and thermal adj cracking with seconds	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/27 17:29
S22	0	S5 and thermal\$4 adj crack\$4 with seconds	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/27 17:29
S23	1	S5 and thermal\$4 adj crack\$4 with time	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/27 17:29
S24	5	(S5 or S6 or S4) and thermal\$4 adj crack\$4 with hydrogen with heavy with second\$1	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/27 17:34
S25	19	(S5 or S6 or S4) and thermal\$4 adj crack\$4 with hydrogen with seconds	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/27 17:34
S26	8	US-4294686-\$.DID. OR US-5069775-\$.DID. OR US-5133941-\$.DID. OR US-5269909-\$.DID. OR US-5817229-\$.DID. OR US-6004453-\$.DID. OR US-6016868-\$.DID. OR US-6059957-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 11:39
S27	0	S26 and reaction adj severity adj index	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 11:39

## EAST Search History

S28	326	("1404709"   "1884495"   "1949109"   "2134571"   "2419245"   "2467920"   "2506853"   "2584606"   "2614066"   "2620293"   "2734578"   "2797908"   "2819890"   "2843530"   "2857002"   "2873245"   "2880167"   "2887160"   "2899330"   "2913388"   "2931767"   "2953513"   "2994724"   "3051235"   "3084919"   "3102588"   "3208514"   "3228467"   "3254721"   "3327782"   "3340316"   "3355376"   "3369992"   "3372754"   "3412010"   "3456721"   "3532618"   "3544291"   "3595316"   "3598182"   "3617471"   "3681200"   "3681231"   "3694344"   "3694374"   "3700035"   "3707189"   "3730875"   "3775286"   "3847564"   "3847748"   "3902856"   "3908762"   "3948754"   "3982591"   "3982592"   "3986556"   "3990513"   "3994340"   "4008128"   "4024912"   "4037658"   "4050515"   "4053015"   "4077469"   "4078613"   "4099568"   "4127171"   "4134825"   "4141417"   "4148358"   "4159743"   "4160479"   "4172026"   "4183405"   "4186800"   "4199024"   "4209685"   "4214977"   "4233166"   "4241790"   "4252634"   "4265310"   "4284139"   "4294686"   "4299685"   "4299687"   "4309753"   "4324139"   "4334976"   "4347122"   "4354923"   "4370221"   "4391701"   "4410421"   "4411768"   "4419223"   "4432864"   "4434044"   "4435279"   "4444257"   "4444651"   "4448251"   "4464247"   "4464250"   "4476927"   "4478707"   "4483762"   "4487264"   "4493761"   "4501445"   "4514283"   "4525175"   "4569753"   "4582120"   "4597441"   "4605646"   "4687570"   "4691771"   "4716958"   "4743357"   "4822761"   "4853337"   "4865130"   "4883582") .PN. OR ("4894141"   "4897176"   "4923838"   "4925632"   "4963247"   "4969988"   "4994172"   "5024752"   "5045226"   "5054551"   "5055030"   "5069775"   "5104516"   "5105887"   "5110452"   "5120427"   "5120430"   "5145003"   "5163511"   "5190633"   "5222617"   "5228501"   "5258634"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/28 11:40
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## EAST Search History

S30	0	(S26 or S28) and reaction adj severity adj index	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 11:41
S31	524	208/132.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 11:41
S32	0	(S26 or S28 or S31) and reaction adj severity adj index	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 11:41
S33	2388	208/14,106,107,132.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 11:41
S34	1	(S26 or S28 or S31 or S33) and reaction adj severity adj index	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 12:04
S35	1	(S26 or S28 or S31 or S33) and RSI	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 11:42
S36	1	(S26 or S28 or S31 or S33) and reaction adj severity adj index	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/03/28 15:02
S37	29	reaction adj severity adj index	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/03/28 12:07
S38	0	reaction adj severity adj index with seconds	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/03/28 12:07
S39	8	US-4294686-\$.DID. OR US-5069775-\$.DID. OR US-5133941-\$.DID. OR US-5269909-\$.DID. OR US-5817229-\$.DID. OR US-6004453-\$.DID. OR US-6016868-\$.DID. OR US-6059957-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 15:02



## EAST Search History

S40	326	("1404709"   "1884495"   "1949109"   "2134571"   "2419245"   "2467920"   "2506853"   "2584606"   "2614066"   "2620293"   "2734578"   "2797908"   "2819890"   "2843530"   "2857002"   "2873245"   "2880167"   "2887160"   "2899330"   "2913388"   "2931767"   "2953513"   "2994724"   "3051235"   "3084919"   "3102588"   "3208514"   "3228467"   "3254721"   "3327782"   "3340316"   "3355376"   "3369992"   "3372754"   "3412010"   "3456721"   "3532618"   "3544291"   "3595316"   "3598182"   "3617471"   "3681200"   "3681231"   "3694344"   "3694374"   "3700035"   "3707189"   "3730875"   "3775286"   "3847564"   "3847748"   "3902856"   "3908762"   "3948754"   "3982591"   "3982592"   "3986556"   "3990513"   "3994340"   "4008128"   "4024912"   "4037658"   "4050515"   "4053015"   "4077469"   "4078613"   "4099568"   "4127171"   "4134825"   "4141417"   "4148358"   "4159743"   "4160479"   "4172026"   "4183405"   "4186800"   "4199024"   "4209685"   "4214977"   "4233166"   "4241790"   "4252634"   "4265310"   "4284139"   "4294686"   "4299685"   "4299687"   "4309753"   "4324139"   "4334976"   "4347122"   "4354923"   "4370221"   "4391701"   "4410421"   "4411768"   "4419223"   "4432864"   "4434044"   "4435279"   "4444257"   "4444651"   "4448251"   "4464247"   "4464250"   "4476927"   "4478707"   "4483762"   "4487264"   "4493761"   "4501445"   "4514283"   "4525175"   "4569753"   "4582120"   "4597441"   "4605646"   "4687570"   "4691771"   "4716958"   "4743357"   "4822761"   "4853337"   "4865130"   "4883582").PN. OR ("4894141"   "4897176"   "4923838"   "4925632"   "4963247"   "4969988"   "4994172"   "5024752"   "5045226"   "5054551"   "5055030"   "5069775"   "5104516"   "5105887"   "5110452"   "5120427"   "5120430"   "5145003"   "5163511"   "5190633"   "5222617"   "5228501"   "5258634"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/28 15:02
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## EAST Search History

S41	27	(S39 or S40) and coke with percent	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/03/28 19:38
S42	0	(S39) and coke with percent	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/03/28 15:03
S43	1	("5104516").PN.	USPAT; USOCR	OR	OFF	2006/03/28 15:49
S44	1	("5322617").PN.	USPAT; USOCR	OR	OFF	2006/03/28 15:49
S45	92	thermal\$4 adj crack\$4 with stabiliz\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 10:26
S46	2388	208/14,106,107,132.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 17:20
S47	8	US-4294686-\$.DID. OR US-5069775-\$.DID. OR US-5133941-\$.DID. OR US-5269909-\$.DID. OR US-5817229-\$.DID. OR US-6004453-\$.DID. OR US-6016868-\$.DID. OR US-6059957-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 17:20

# EAST Search History

S48	326	("1404709"   "1884495"   "1949109"   "2134571"   "2419245"   "2467920"   "2506853"   "2584606"   "2614066"   "2620293"   "2734578"   "2797908"   "2819890"   "2843530"   "2857002"   "2873245"   "2880167"   "2887160"   "2899330"   "2913388"   "2931767"   "2953513"   "2994724"   "3051235"   "3084919"   "3102588"   "3208514"   "3228467"   "3254721"   "3327782"   "3340316"   "3355376"   "3369992"   "3372754"   "3412010"   "3456721"   "3532618"   "3544291"   "3595316"   "3598182"   "3617471"   "3681200"   "3681231"   "3694344"   "3694374"   "3700035"   "3707189"   "3730875"   "3775286"   "3847564"   "3847748"   "3902856"   "3908762"   "3948754"   "3982591"   "3982592"   "3986556"   "3990513"   "3994340"   "4008128"   "4024912"   "4037658"   "4050515"   "4053015"   "4077469"   "4078613"   "4099568"   "4127171"   "4134825"   "4141417"   "4148358"   "4159743"   "4160479"   "4172026"   "4183405"   "4186800"   "4199024"   "4209685"   "4214977"   "4233166"   "4241790"   "4252634"   "4265310"   "4284139"   "4294686"   "4299685"   "4299687"   "4309753"   "4324139"   "4334976"   "4347122"   "4354923"   "4370221"   "4391701"   "4410421"   "4411768"   "4419223"   "4432864"   "4434044"   "4435279"   "4444257"   "4444651"   "4448251"   "4464247"   "4464250"   "4476927"   "4478707"   "4483762"   "4487264"   "4493761"   "4501445"   "4514283"   "4525175"   "4569753"   "4582120"   "4597441"   "4605646"   "4687570"   "4691771"   "4716958"   "4743357"   "4822761"   "4853337"   "4865130"   "4883582").PN. OR ("4894141"   "4897176"   "4923838"   "4925632"   "4963247"   "4969988"   "4994172"   "5024752"   "5045226"   "5054551"   "5055030"   "5069775"   "5104516"   "5105887"   "5110452"   "5120427"   "5120430"   "5145003"   "5163511"   "5190633"   "5227617"   "5228501"   "5258634"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/28 17:20
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## EAST Search History

S49	10	(S47 or S48 or S46) and S45	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 17:20
S50	2	thermal\$4 adj crack\$4 with stabiliz\$4 near zone	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 17:37
S51	26	thermal\$4 adj crack\$4 with stabiliz\$4 with temperature	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 17:38
S52	0	thermal\$4 adj crack\$4 with stabiliz\$4 with temperature with minutes	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 17:38
S53	6	thermal\$4 adj crack\$4 with stabiliz\$4 with temperature with time	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 17:38
S54	8	US-4294686-\$.DID. OR US-5069775-\$.DID. OR US-5133941-\$.DID. OR US-5269909-\$.DID. OR US-5817229-\$.DID. OR US-6004453-\$.DID. OR US-6016868-\$.DID. OR US-6059957-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 20:03

## EAST Search History

S55	326	("1404709"   "1884495"   "1949109"   "2134571"   "2419245"   "2467920"   "2506853"   "2584606"   "2614066"   "2620293"   "2734578"   "2797908"   "2819890"   "2843530"   "2857002"   "2873245"   "2880167"   "2887160"   "2899330"   "2913388"   "2931767"   "2953513"   "2994724"   "3051235"   "3084919"   "3102588"   "3208514"   "3228467"   "3254721"   "3327782"   "3340316"   "3355376"   "3369992"   "3372754"   "3412010"   "3456721"   "3532618"   "3544291"   "3595316"   "3598182"   "3617471"   "3681200"   "3681231"   "3694344"   "3694374"   "3700035"   "3707189"   "3730875"   "3775286"   "3847564"   "3847748"   "3902856"   "3908762"   "3948754"   "3982591"   "3982592"   "3986556"   "3990513"   "3994340"   "4008128"   "4024912"   "4037658"   "4050515"   "4053015"   "4077469"   "4078613"   "4099568"   "4127171"   "4134825"   "4141417"   "4148358"   "4159743"   "4160479"   "4172026"   "4183405"   "4186800"   "4199024"   "4209685"   "4214977"   "4233166"   "4241790"   "4252634"   "4265310"   "4284139"   "4294686"   "4299685"   "4299687"   "4309753"   "4324139"   "4334976"   "4347122"   "4354923"   "4370221"   "4391701"   "4410421"   "4411768"   "4419223"   "4432864"   "4434044"   "4435279"   "4444257"   "4444651"   "4448251"   "4464247"   "4464250"   "4476927"   "4478707"   "4483762"   "4487264"   "4493761"   "4501445"   "4514283"   "4525175"   "4569753"   "4582120"   "4597441"   "4605646"   "4687570"   "4691771"   "4716958"   "4743357"   "4822761"   "4853337"   "4865130"   "4883582") .PN. OR ("4894141"   "4897176"   "4923838"   "4925632"   "4963247"   "4969988"   "4994172"   "5024752"   "5045226"   "5054551"   "5055030"   "5069775"   "5104516"   "5105887"   "5110452"   "5120427"   "5120430"   "5145003"   "5163511"   "5190633"   "5222617"   "5228501"   "5258634"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/28 19:39
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## EAST Search History

S56	2388	208/14,106,107,132.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 19:39
S57	23	(S54 or S55 or S56) and C4 with percent	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/03/28 19:42
S58	218	thermal adj crack\$4 and C4 with percent	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2006/03/28 19:42
S59	1	S54 and c4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 20:03
S60	1	S54 and c5	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 20:03
S61	12	S55 and c4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/28 20:03
S62	9	thermal\$4 adj crack\$4 with stabiliz\$4 with conver\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 10:29
S63	65	thermal\$4 adj crack\$4 with (quench\$4 or cool\$4) with conver\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 10:30
S64	8	US-4294686-\$.DID. OR US-5069775-\$.DID. OR US-5133941-\$.DID. OR US-5269909-\$.DID. OR US-5817229-\$.DID. OR US-6004453-\$.DID. OR US-6016868-\$.DID. OR US-6059957-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 10:31

# EAST Search History

S65	326	("1404709"   "1884495"   "1949109"   "2134571"   "2419245"   "2467920"   "2506853"   "2584606"   "2614066"   "2620293"   "2734578"   "2797908"   "2819890"   "2843530"   "2857002"   "2873245"   "2880167"   "2887160"   "2899330"   "2913388"   "2931767"   "2953513"   "2994724"   "3051235"   "3084919"   "3102588"   "3208514"   "3228467"   "3254721"   "3327782"   "3340316"   "3355376"   "3369992"   "3372754"   "3412010"   "3456721"   "3532618"   "3544291"   "3595316"   "3598182"   "3617471"   "3681200"   "3681231"   "3694344"   "3694374"   "3700035"   "3707189"   "3730875"   "3775286"   "3847564"   "3847748"   "3902856"   "3908762"   "3948754"   "3982591"   "3982592"   "3986556"   "3990513"   "3994340"   "4008128"   "4024912"   "4037658"   "4050515"   "4053015"   "4077469"   "4078613"   "4099568"   "4127171"   "4134825"   "4141417"   "4148358"   "4159743"   "4160479"   "4172026"   "4183405"   "4186800"   "4199024"   "4209685"   "4214977"   "4233166"   "4241790"   "4252634"   "4265310"   "4284139"   "4294686"   "4299685"   "4299687"   "4309753"   "4324139"   "4334976"   "4347122"   "4354923"   "4370221"   "4391701"   "4410421"   "4411768"   "4419223"   "4432864"   "4434044"   "4435279"   "4444257"   "4444651"   "4448251"   "4464247"   "4464250"   "4476927"   "4478707"   "4483762"   "4487264"   "4493761"   "4501445"   "4514283"   "4525175"   "4569753"   "4582120"   "4597441"   "4605646"   "4687570"   "4691771"   "4716958"   "4743357"   "4822761"   "4853337"   "4865130"   "4883582").PN. OR ("4894141"   "4897176"   "4923838"   "4925632"   "4963247"   "4969988"   "4994172"   "5024752"   "5045226"   "5054551"   "5055030"   "5069775"   "5104516"   "5105887"   "5110452"   "5120427"   "5120430"   "5145003"   "5163511"   "5190633"   "5222617"   "5228501"   "5258634"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/29 10:31
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## EAST Search History

S66	2388	208/14,106,107,132.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 10:31
S67	5	(S64 or S65 or S66) and thermal\$4 adj crack\$4 with (quench\$4 or cool\$4) with conver\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 10:31
S68	2	S64 and (quench\$4 or cool\$4 or stabiliz\$4) with conver\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 10:36
S69	722	thermal adj cracking with reactor	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 11:00
S70	216	thermal adj cracking with reactor same (storage or hold\$4 or cool\$4 or quench\$4 or upgrad\$4 or stabiliz\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 11:05
S71	57	thermal adj cracking with reactor same (storage or hold\$4 or upgrad\$4 or stabiliz\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 11:33
S72	86	423/650,652.ccls. and syngas	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 11:33
S73	27	423/650,652.ccls. and syngas and molar adj ratio	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 11:34
S74	0	423/650,652.ccls. and syngas and steam adj to adj hydrocarbon adj ratio	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 11:35
S75	0	423/650,652.ccls. and syngas and steam adj to adj hydrocarbon	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 11:35
S76	69	423/650,652.ccls. and syngas and steam with hydrocarbon	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 11:35
S77	42	423/650,652.ccls. and syngas and steam near hydrocarbon	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 11:35
S78	11	423/650,652.ccls. and syngas and steam near hydrocarbon with ratio	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/29 11:35
S79	1	("6852215").PN.	USPAT; USOCR	OR	OFF	2006/04/03 10:07
S80	515	thermal\$4 adj crack\$4 with heavy adj oil	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/13 12:08



## EAST Search History

S81	2456	208/14,106,107,132.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/13 11:35
S82	58	S80 and S81	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/13 11:35
S83	22	S82 and quench\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/13 12:06
S84	3	S82 and quench\$4 with immediate\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/13 12:07
S85	24	S80 and quench\$4 with immediate\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/13 12:08
S86	54	thermal\$4 adj crack\$4 with heavy adj oil with hydrogen	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/13 13:32
S87	44	S86 and "208"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/13 13:34
S88	29	thermal\$4 adj crack\$4 with heavy adj oil with hydrogen and thermal adj crack\$4 with (time or seconds)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/13 13:36
S89	27	S88 and "208"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/13 13:34
S90	2	thermal\$4 adj crack\$4 with heavy adj oil with hydrogen and thermal\$4 adj crack\$4 with (time or seconds) and immediate\$4 with quench\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/13 13:37
S91	111	208/132.ccls. and thermal\$2 adj crack\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/13 13:40
S92	4429	"208"/\$.ccls. and thermal\$2 adj crack\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/14 14:59
S93	42	"208"/\$.ccls. and thermal\$2 adj crack\$4 with hydrogen with heavy adj oil and thermal adj cracking same temperature\$1	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/14 15:02
S94	4	"208"/\$.ccls. and thermal\$2 adj crack\$4 with hydrogen with heavy adj oil and thermal adj cracking same temperature\$1 and quench\$4 with immediate\$2	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/14 15:13

## EAST Search History

S95	0	(thermal\$2 adj crack\$4 with hydrogen with heavy adj oil and thermal adj cracking same temperature\$1 and quench\$4 with immediate\$2).clm.	US-PGPUB	OR	ON	2007/08/14 15:14
S96	0	(thermal\$2 adj crack\$4 with hydrogen with heavy adj oil and thermal adj cracking same temperature\$1).clm.	US-PGPUB	OR	ON	2007/08/14 15:14